

ABSTRACT OF THE DISCLOSURE

A hydraulic braking system including first and second braking circuits. The first and second braking circuits each include a wheel brake, a pressurized fluid source, and a hydraulic conduit connecting the wheel brake to the fluid source. Each of the hydraulic conduits includes a control valve that operates to selectively prevent fluid flow from the pressurized fluid source to the wheel brake. A connecting conduit connects the first and second braking circuits. A floating piston is disposed within the connecting conduit and is adapted to be displaced by the pressurized fluid provided by the pressurized fluid source in the first braking circuit when the control valve of the first braking circuit is closed. The displacement of the piston generates an additional volume of pressurized fluid in the hydraulic conduit of the second braking circuit that effectively augments the pressurized fluid provided by the second pressurized fluid source.